

TA-AX285/AX380/AX381

SERVICE MANUAL

US Model

TA-AX285

TA-AX380

TA-AX381

Canadian Model

TA-AX285



PHOTO: TA-AX380

TA-AX285 is the integrated stereo amplifier section in SEN-280.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads both channels driven, from 20 – 20,000 Hz: rated 100 watts (AX-285)/ 125 watts (AX380/AX381) per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

TA-AX285

Inputs

	Sensitivity	Impedance
PHONO	2.0 mV	50 kilohms
TUNER/CD/VIDEO/TAPE	150 mV	50 kilohms

Outputs

REC OUT: Voltage 150 mV, Impedance 1 kohms
SPEAKER: Accepts speaker of 8 to 16 ohms
HEADPHONES: Accepts headphones with low and high impedance

Frequency response PHONO: RIAA curve ± 0.5 dB
TUNER/CD/VIDEO/TAPE: 7 Hz – 70 kHz ± 3 dB

GRAPHIC EQUALIZER controls:

Boost/cut range:
 ± 8 dB (100 Hz, 400 Hz, 1 kHz, 4 kHz)
 ± 6 dB (12 kHz)

Dimensions Approx. 430 x 130 x 355 mm
(17 x 5 1/4 x 14 inches)

Weight Approx. 8.2 kg (18 lb 2 oz) net

AX380/AX381

Other Specifications

Amplifier section

Power bandwidth (IHF)

7 Hz – 30 kHz (8 ohms, 55 watts)

Dynamic headroom 1.8 dB (*78 IHF)

Harmonic distortion Less than 0.08% at rated output

Frequency response

PHONO: RIAA equalization curve ± 0.5 dB

TUNER, CD, VIDEO, TAPE

7 Hz – 70 kHz ± 3 dB

Residual noise Less than 25 μ V (8 ohms, network A)

Damping factor 50 (8 ohms, 1 kHz)

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO MM	Phono	2.0 mV	50 kilohms	72 dB 76 dB* (A, 2.0 mV)
TUNER CD VIDEO TAPE	Phono	150 mV	50 kilohms	100 dB 88 dB* (A, 150 mV)

*78 IHF

Output

REC OUT	Phono jacks	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	—	Accepts speakers of 8 – 16 ohms.
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.

— Continued on page 2 —

INTEGRATED STEREO AMPLIFIER
SONY®



CONTENTS

GRAPHIC EQUALIZER controls	
	Boost/cut range: ± 8 dB (100 Hz, 400 Hz, 1 kHz, 4 kHz) : ± 6 dB (12 kHz)
General System	
	Preamplifier: Low-noise, high-gain equalizer amplifier
	Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Power requirements	120 V AC, 60 Hz
Power consumption	200 W
AC outlets	3 switched, total 100 watts max.
Dimensions	Approx. 430 \times 130 \times 355 mm (w/h/d) (17 \times 5 $\frac{1}{8}$ \times 14 inches)
Weight	Approx. 8.5 kg (18 lb 12 oz)

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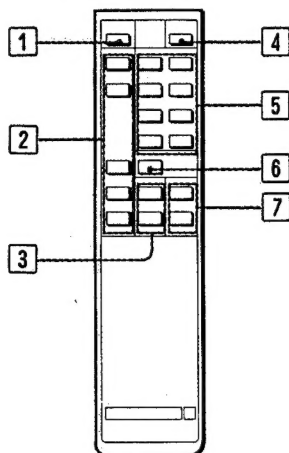
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

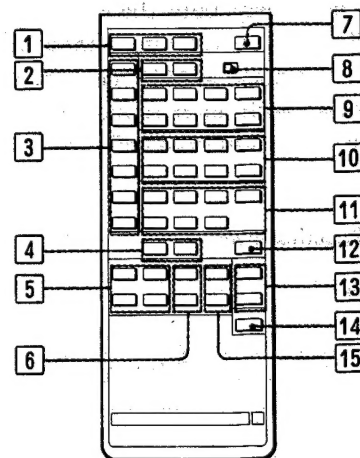
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

FUNCTION OF CONTROLS

RM-S380 remote commander
(TA-AX380)

- 1 SYSTEM POWER switch
- 2 GRAPHIC EQUALIZER controls
- 3 MUTING button and indicator
Press to decrease the sound level temporarily.
The indicator lights.
Press the button again to resume the original sound level.
The indicator goes off.
- 4 VOLUME control knob and indicator
- 5 SPEAKERS A,B select buttons
- 6 HEADPHONES jack (stereo phone jack)
- 7 Remote control sensor
- 8 Power indicator
- 9 FUNCTION buttons and indicators
- 10 BALANCE control

RM-U80 remote commander
(TA-AX381)

Some buttons of the supplied remote commander do not function with this system. They can be operated when other Sony equipment which has a remote sensor is used.

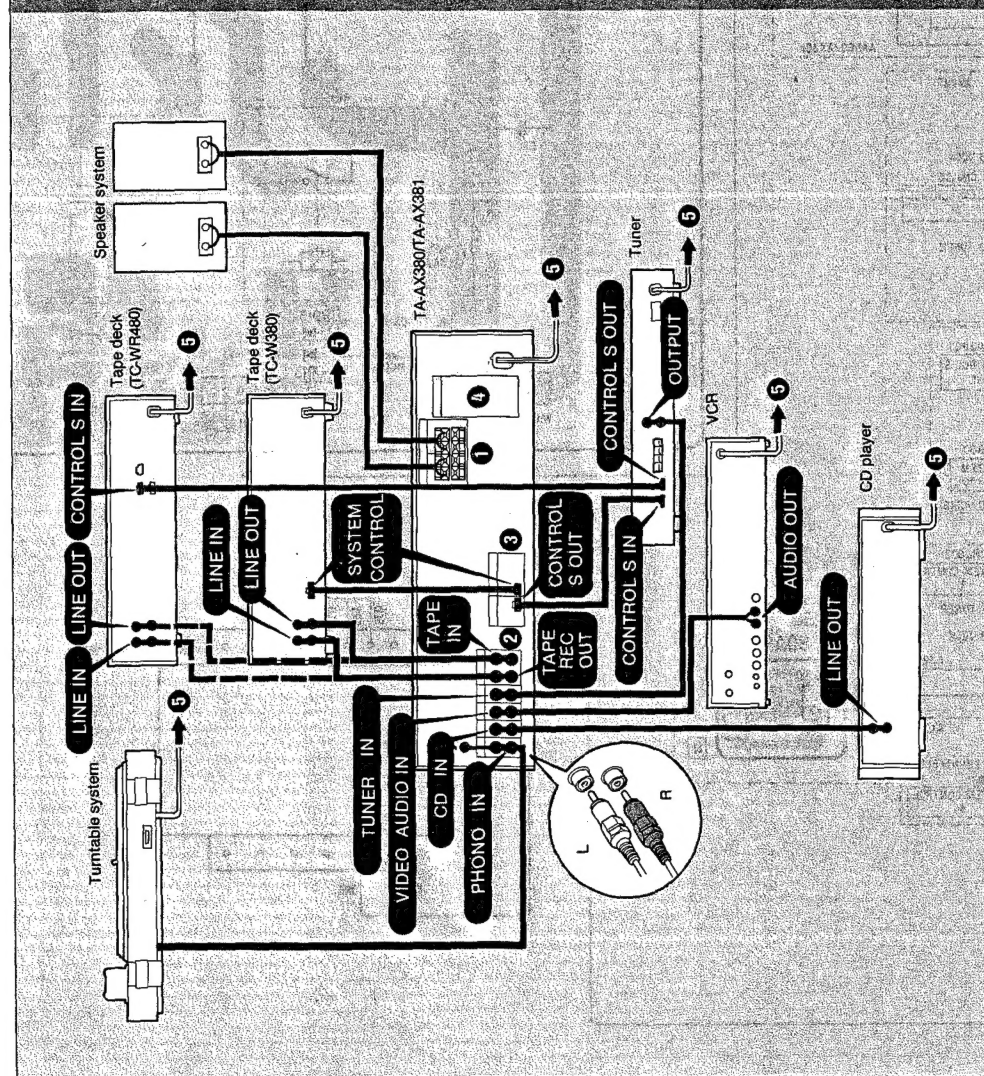
- 1 MUTING button
- 2 Function selectors
- 3 TUNER PRESET selectors
- 4 POWER ON/OFF switch
- 5 CD player operation buttons
- 6 Tape deck pause button
- 7 VOL (volume) buttons
- 1 AUDIO/VIDEO/TV POWER ON/OFF switch
- 2 START/STOP buttons
- 3 Program source selectors
- 4 MUSIC INDEX/EQ MEMORY (Music index/equalization memory) buttons
- 5 TV VOL (volume)/CH (channel) buttons
- 6 VTR CH (channel) buttons
- 7 POWER ON/OFF/SYSTEM OFF switch
- 8 TAPE B VTR1/TAPE A VTR 2 selector
- 9 CD buttons
- 10 TAPE buttons
- 11 VTR buttons
- 12 SURROUND ON/OFF buttons
- 13 VOL (volume) buttons
- 14 MUTING button
- 15 TUNER PRESET buttons

SECTION 1 GENERAL

CONNECTIONS

TA-AX380/AX381

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.



Connecting speaker

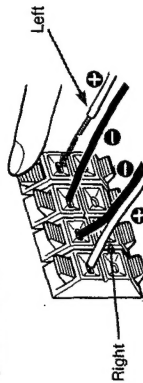
(Speaker impedance and power capacity)
This amplifier is designed to work best with speakers having nominal impedance from 8 to 16 ohms. Be sure to use the speaker system with adequate power handling capabilities.

Connecting a video tape recorder

To connect a video tape recorder, use the following cables.

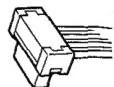
For stereo video tape recorder RK-74A	phono plug × 2—phono plug × 2
For monaural video tape recorder RK-105A RK-C71	mini plug × 1—phono plug × 2 phono plug × 1—phono plug × 2

1 Speaker cords



2 CONTROL S connector (4-pin)

Connect to the CONTROL S IN connector of other Sony equipment with the 4-pin flat remote control cord for whole audio system remote control.



3 SYSTEM CONTROL connector (3-pin)

Connect to the SYSTEM CONTROL connector of Sony TC-W380 tape deck with the 3-pin flat system control cord for remote control.

4 AC OUTLET

These are used to power other audio components whose power consumption is less than the wattage indicated on the AC outlet.
SWITCHED: These outlets are controlled by the POWER switch.

CAUTION: Do not connect any electrical home appliances such as an electric iron, fan, TV or other high wattage equipment to these AC outlets.

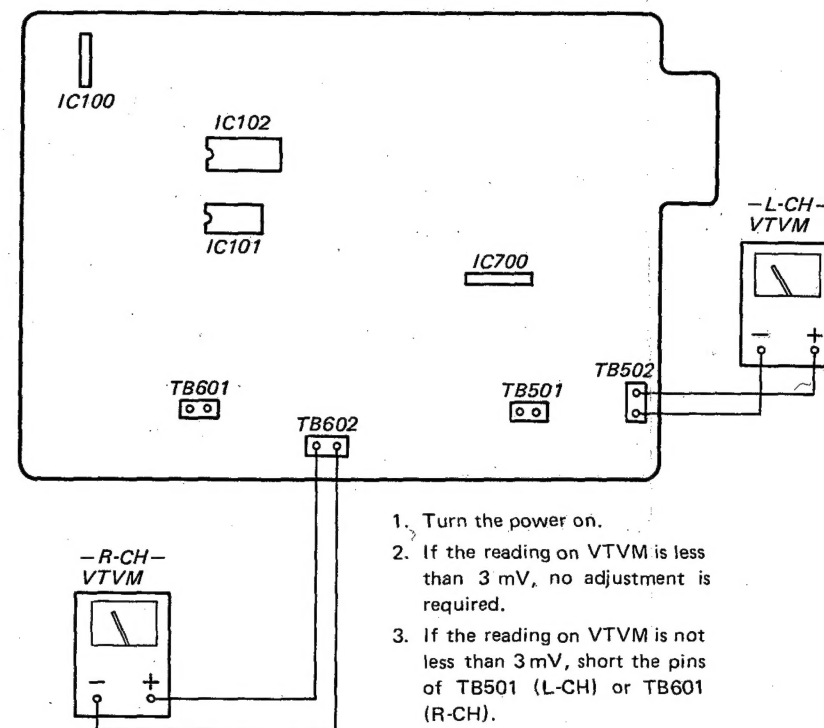
5 Power cord

Connect to a wall outlet.

SECTION 2 ELECTRICAL ADJUSTMENTS

• IDLING CHECK

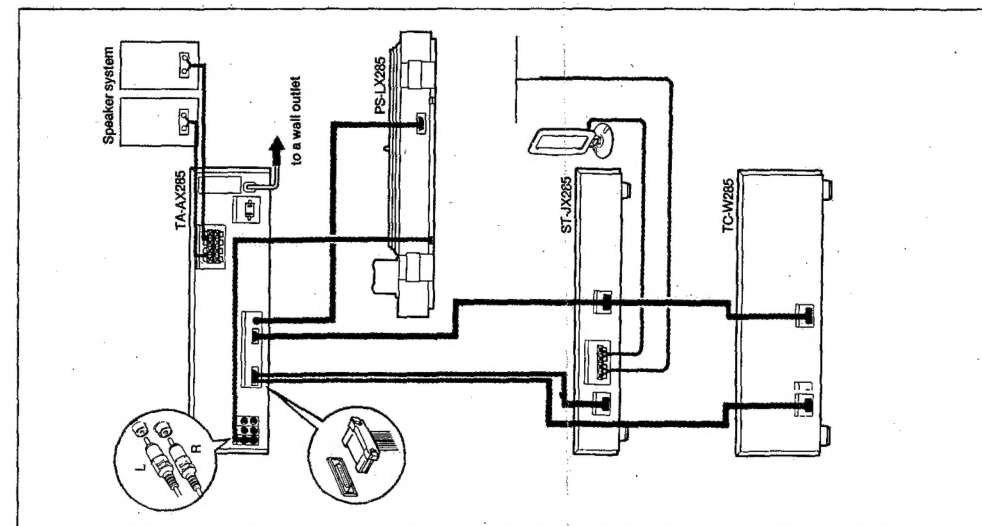
MAIN BOARD (Component Side)



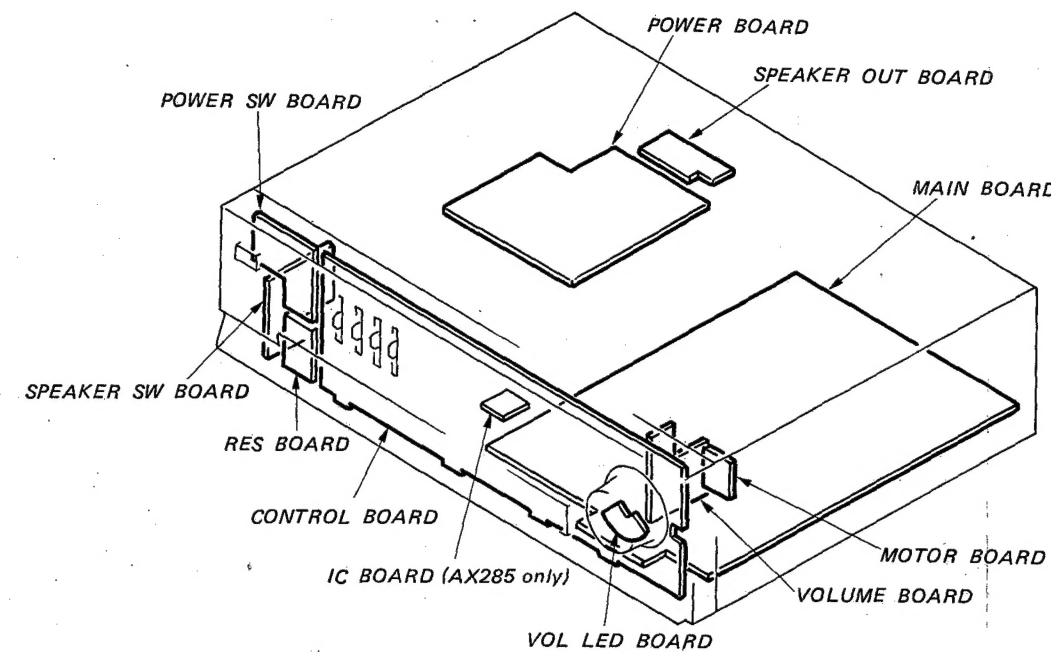
1. Turn the power on.
2. If the reading on VTVM is less than 3 mV, no adjustment is required.
3. If the reading on VTVM is not less than 3 mV, short the pins of TB501 (L-CH) or TB601 (R-CH).

TA-AX285

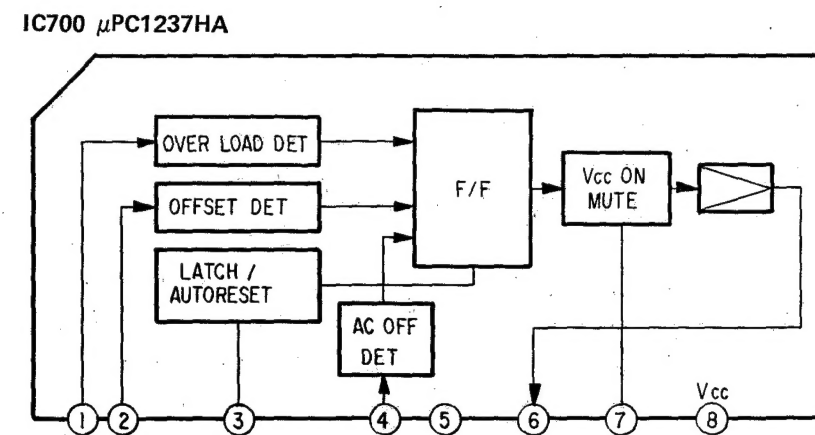
- The power cord should be connected last of all, first making sure that the SYSTEM POWER switch is turned off.
- The cable connectors should be fully inserted into the connectors. A loose connection may cause hum and noise.
- Keep the speaker cords, connecting cords and power cord away from the AM loop antenna and the tuner's antenna lead-in to avoid possible noise pickup.



• CIRCUIT BOARDS LOCATION



• IC BLOCK DIAGRAM



Note on Schematic Diagram:

- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- \square : nonflammable resistor.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: PHONO
- Voltages are taken with a VOM (50 k Ω /V).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 \Rightarrow : PHONO
- Switches:

Ref. No.	Switch	Position
S1	PHONO	OFF
S2	TUNER	OFF
S3	CD	OFF
S4	TAPE	OFF
S5	VIDEO	OFF
S6	MUTING	OFF
S7	SYSTEM POWER	OFF
S500-1	SPEAKERS A	ON
S500-2	SPEAKERS B	OFF

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

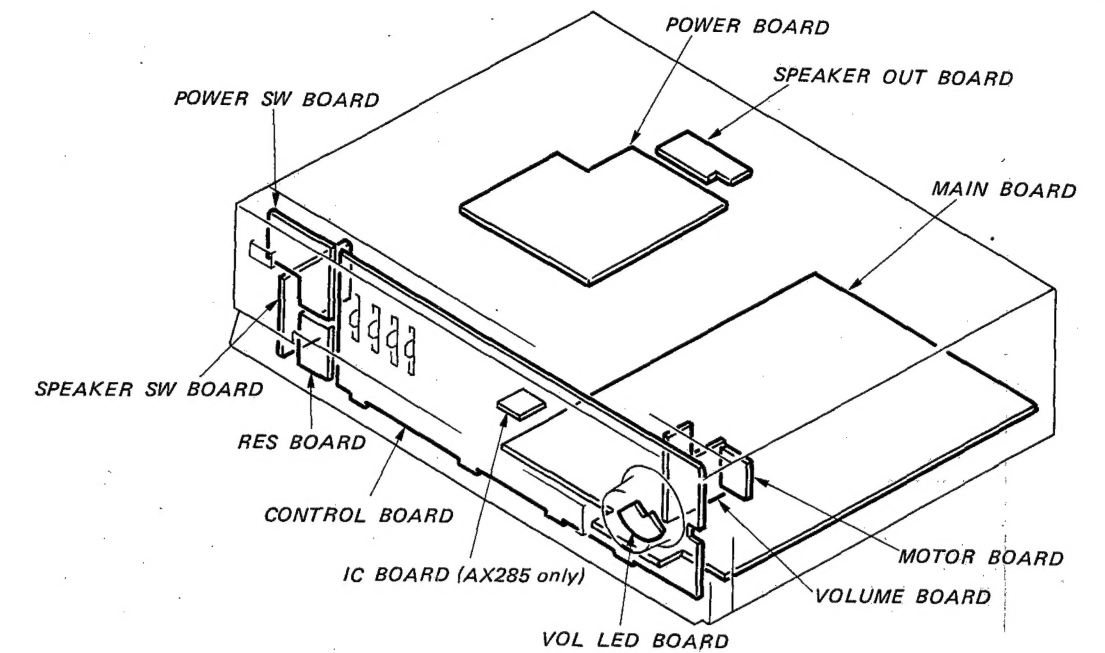
Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 3 DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS

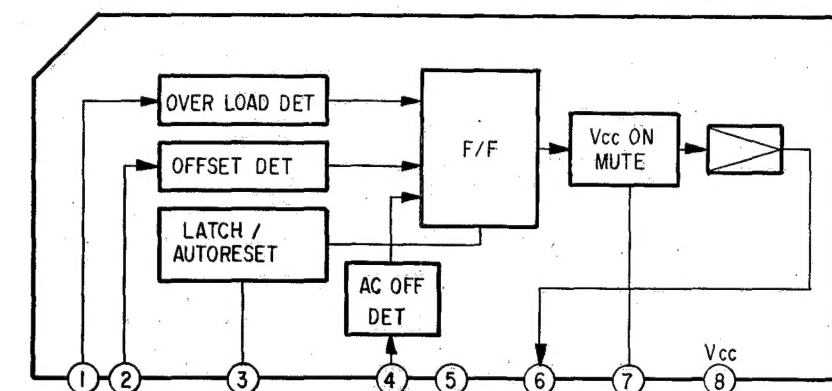
M4066BP 14 13 12 11 10 9 8 1 2 3 4 5 6 7 (Top view)	M5F7809 IN COMM OUT	M5F7909 COMM IN OUT	10E2 US1060M HZ5ALL cathode anode
M50761-439P 20 18 16 14 12 19 17 15 13 11 1 2 3 4 5 6 7 8 9 10 (Top view)	2SB1014 E C B	2SA979 BCECB	D300 1 2 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
LC7818 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 1 (Top view)	2SA988-F 2SC3622A-K 2SC1841 2SD1387 2SD1388 E C B	2SD774 E C B	SEL2210S-C SEL2810A-C long short anode cathode
M5218L μPC1237HA 1 2 3 4 5 6 7 8	DTA114ES DTA124ES DTC114ES DTC124ES DTC144ES E C B	2SC2785-E 2SA1175 E C B	SEL2510C long short anode cathode
μPC4570HA 1 2 3 4 5 6 7 8 9	2SA985A 2SA1383 2SC3514 2SC2275A B C E	US1090M UZL-6L2 UZL-6H2 UZL-7M3 UZL-6L1 cathode anode	SEL2213C cathode anode
M5F7812 IN GND OUT			

• CIRCUIT BOARDS LOCATION



• IC BLOCK DIAGRAM

IC700 μPC1237HA



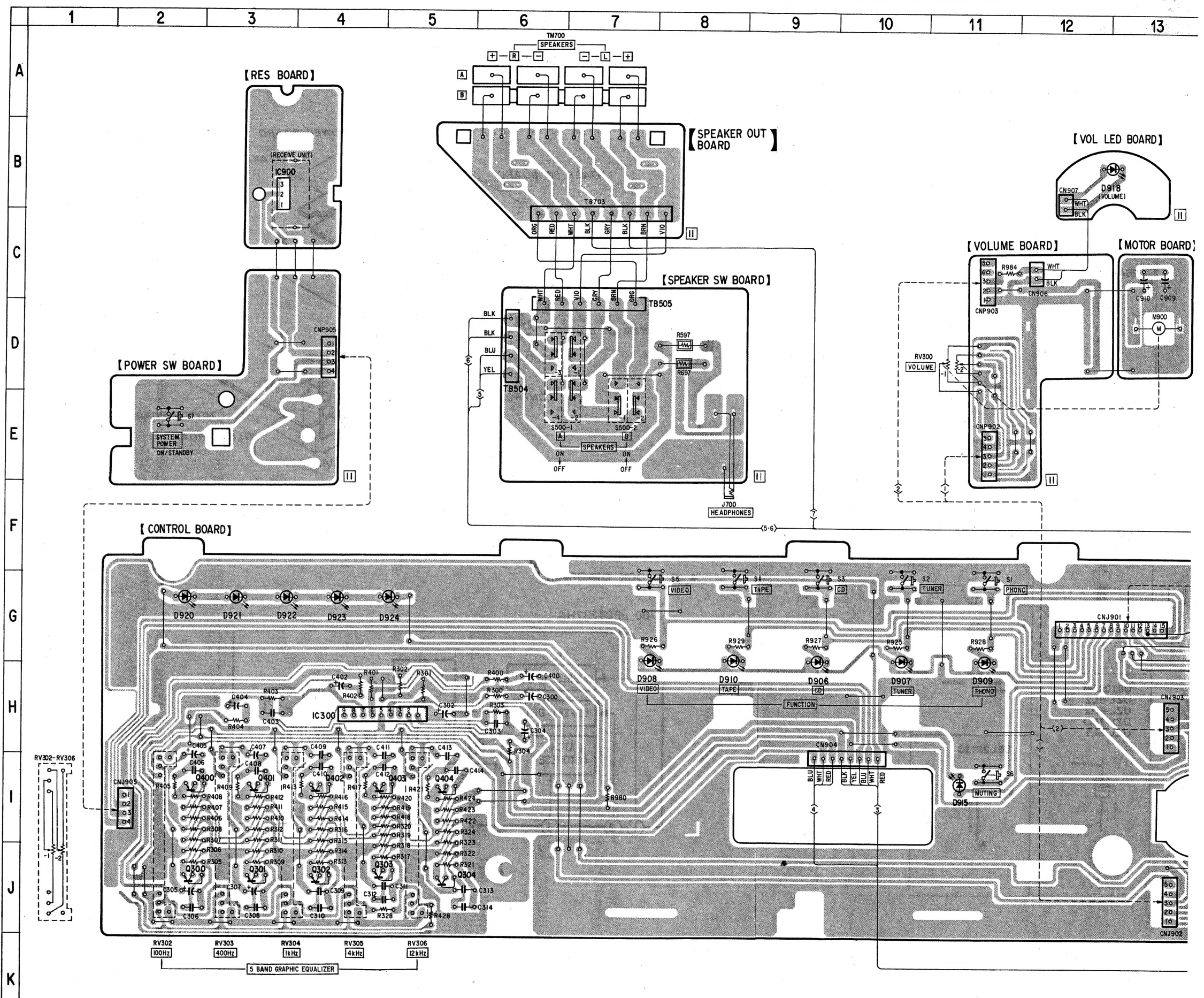
3-2. PRINTED WIRING BOARDS

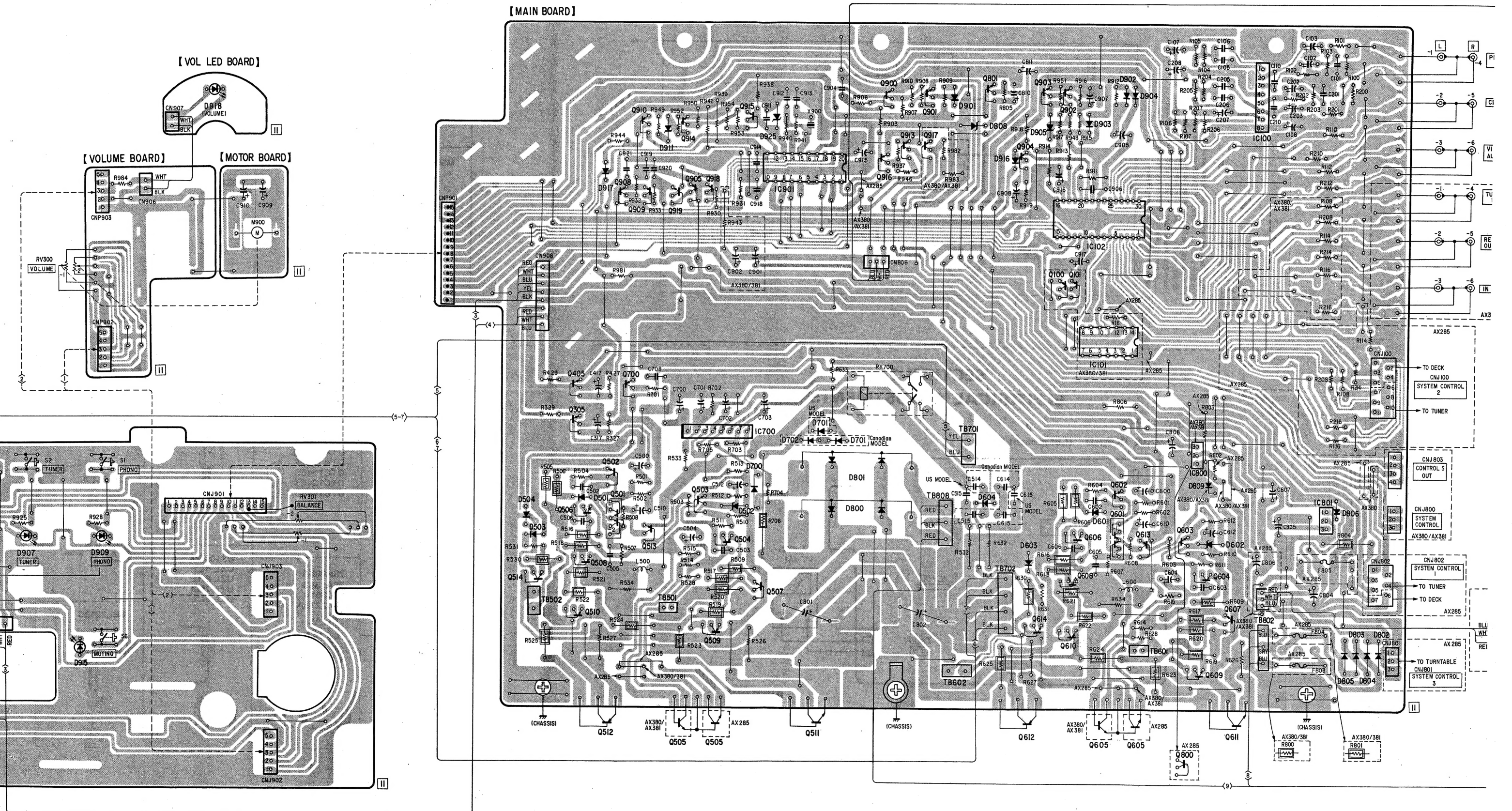
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	G-17	D924	G-5	Q512	J-17
D502	G-19	D925	B-19	Q513	G-18
D503	G-16			Q514	H-16
D504	G-16	IC100	B-25	Q601	G-24
D601	G-23	IC101	E-23	Q602	G-24
D602	G-25	IC102	D-23	Q603	G-24
D603	H-23	IC300	H-4	Q604	H-25
D604	G-22	IC700	F-19	Q605	
D700	G-19	IC800		(AX285)	I-23
D701	F-20	(AX285)	I-29	(AX380/AX381)	I-24
D702	F-20	(AX380/AX381)	F-25	Q606	G-23
D800	G-20	IC801	G-26	Q607	H-25
D801	F-20	IC900	B-3	Q608	H-23
D802	I-27	IC901	C-20	Q609	I-25
D803	I-27			Q610	I-23
D804	I-27	Q100	D-23	Q611	I-25
D805	I-26	Q101	D-23	Q612	I-22
D806	G-26	Q300	J-2	Q613	H-24
D807	F-33	Q301	J-3	Q614	H-23
D808	B-22	Q302	J-4	Q700	F-18
D809	G-25	Q303	J-5	Q800	
D901	B-22	Q304	J-5	(AX285)	J-24
D902	B-24	Q305	F-17	(AX380/AX381)	J-23
D903	B-23	Q400	I-2	Q801	B-22
D904	B-24	Q401	I-3	Q900	B-21
D905	B-23	Q402	I-4	Q901	B-21
D906	G-9	Q403	I-5	Q902	B-23
D907	G-10	Q404	I-5	Q903	B-23
D908	G-7	Q405	F-17	Q904	C-22
D909	G-11	Q501	G-17	Q905	C-18
D910	G-8	Q502	G-17	Q908	C-18
D911	B-18	Q503	G-19	Q909	C-18
D913	F-31	Q504	G-19	Q910	B-18
D915	I-11	Q505		Q913	C-21
D916	C-22	(AX285)	J-19	Q914	B-18
D917	C-17	(AX380/AX381)	J-18	Q915	B-19
D918	B-13	Q506	G-17	Q916	C-21
D919	F-32	Q507	H-19	Q917	C-21
D920	G-2	Q508	H-17	Q918	C-19
D921	G-3	Q509	H-19	Q919	C-18
D922	G-3	Q510	H-17		
D923	G-4	Q511	I-20		

Note:

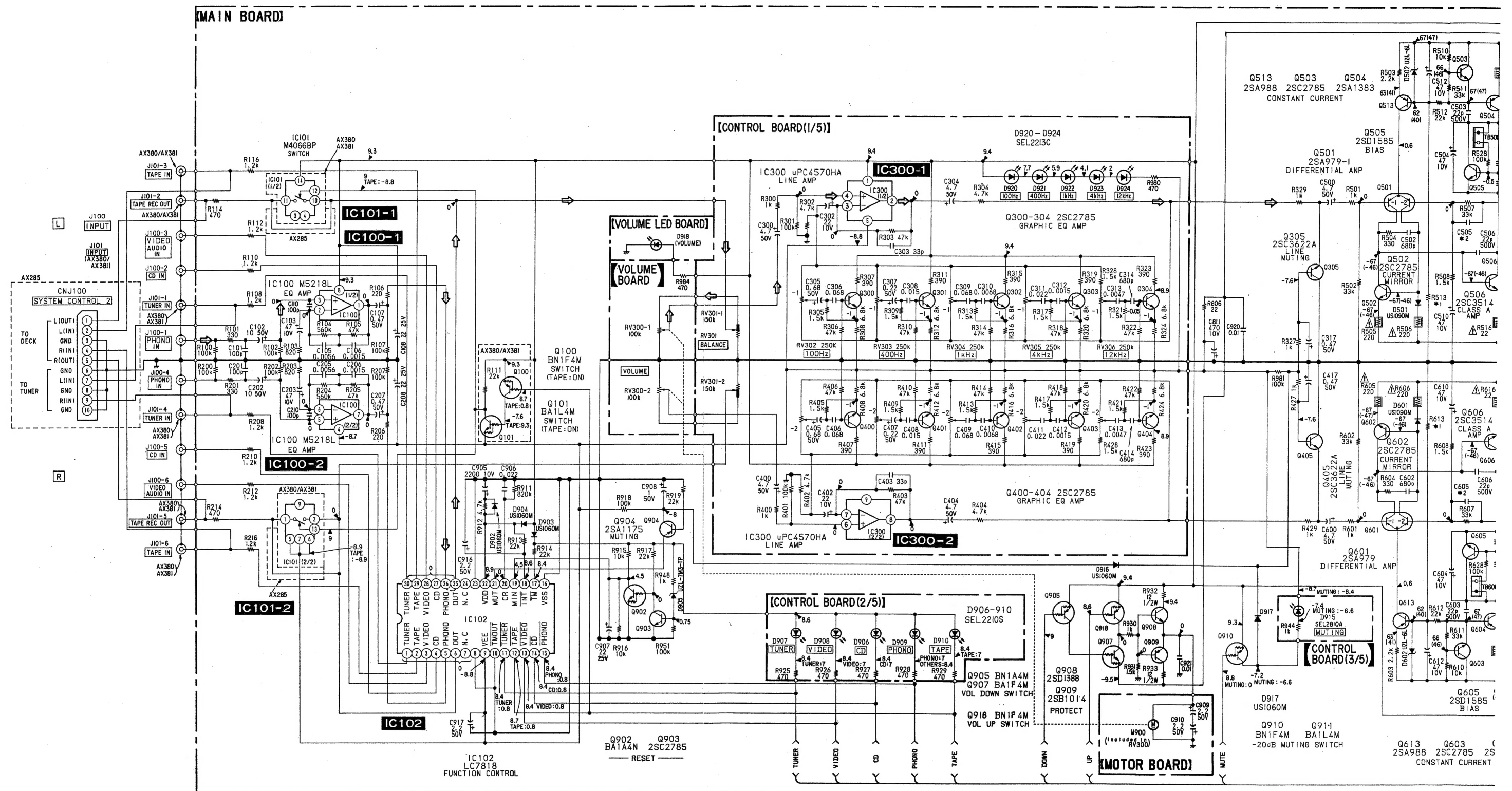
- : parts extracted from the component side.
- : parts extracted from the conductor side.

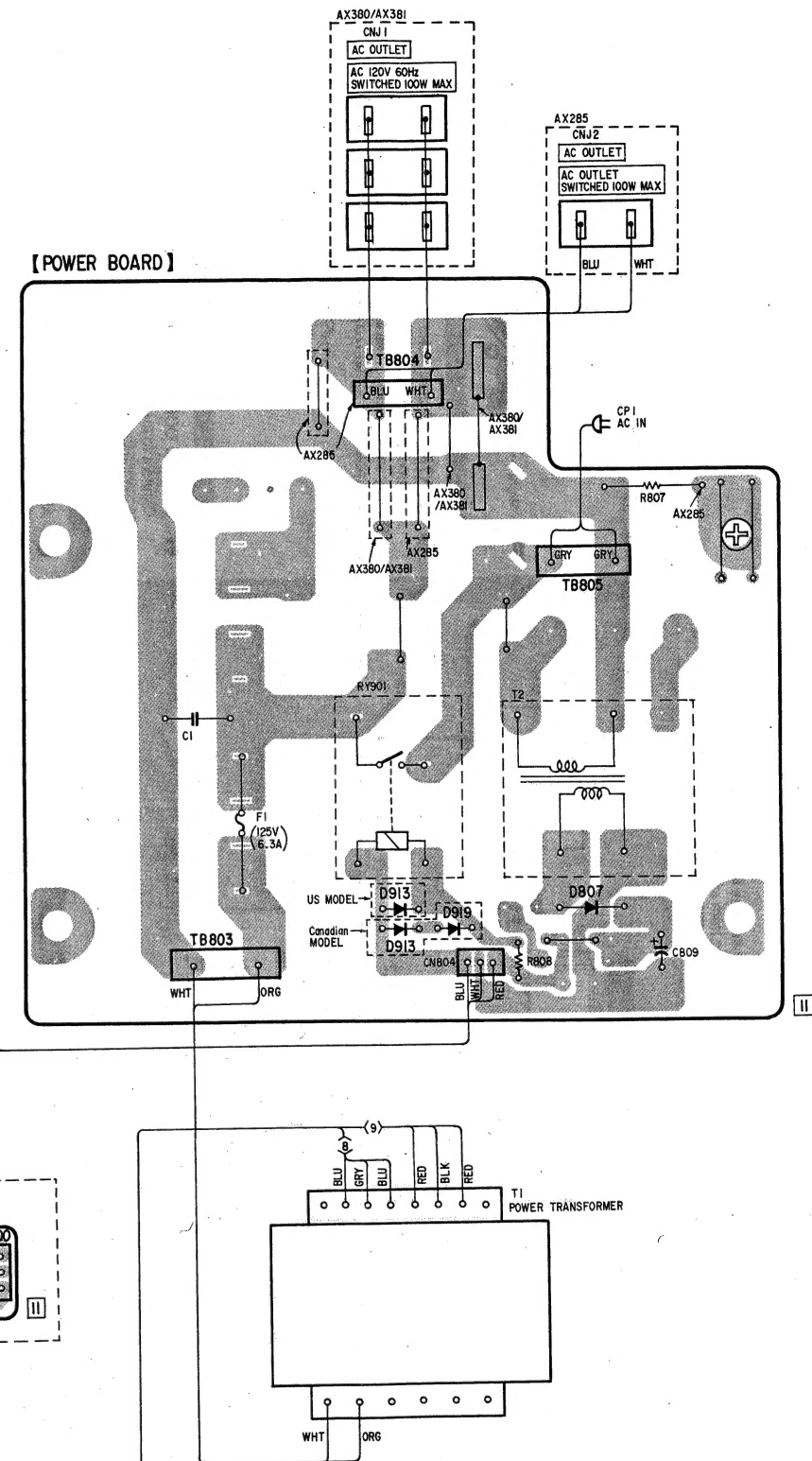




3-3. SCHEMATIC DIAGRAM

• See page 7 for note.

* R513, R613 (15k: AX285
18k: AX380/AX381)






SECTION 4 EXPLODED VIEWS

NOTE:

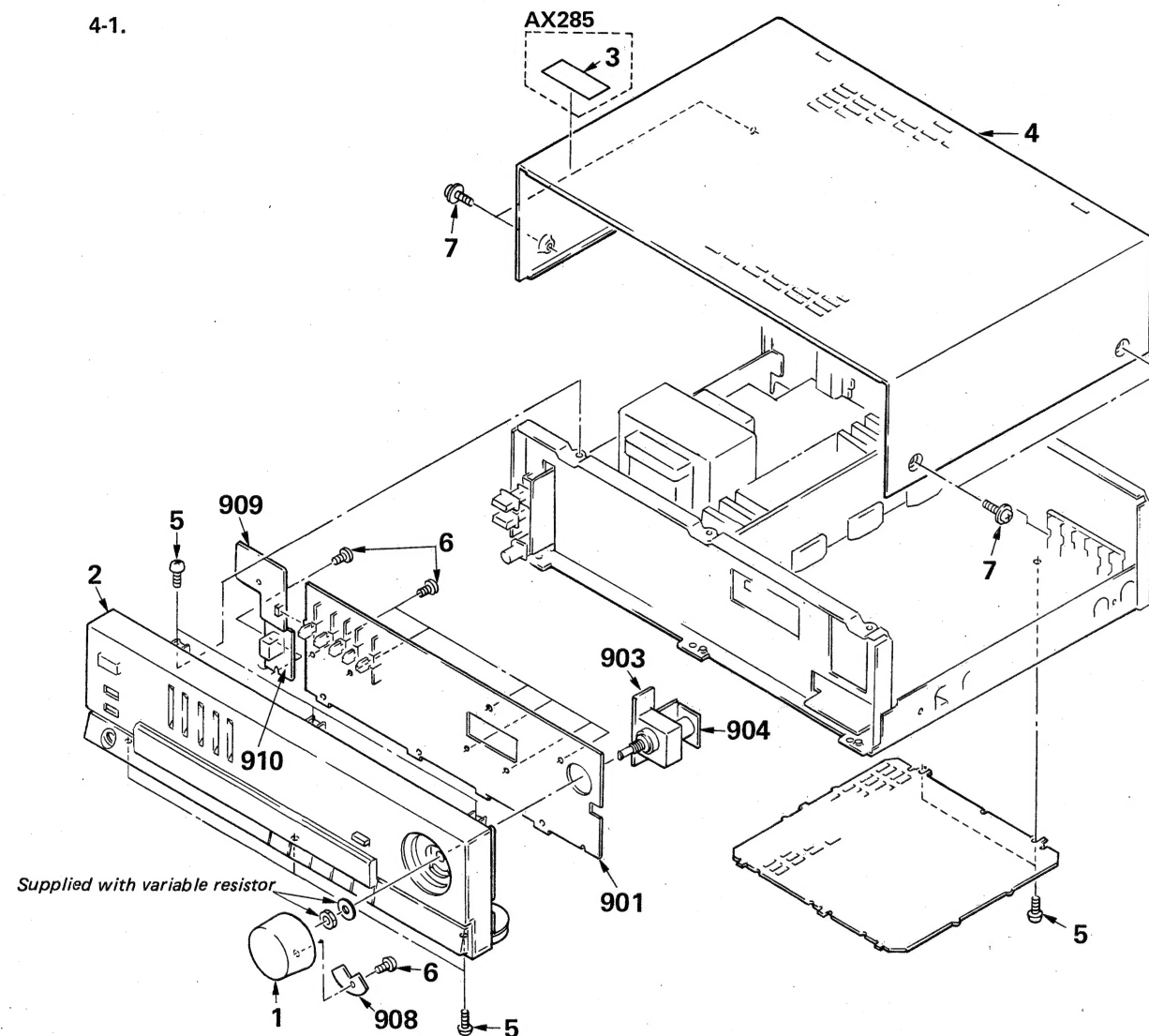
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

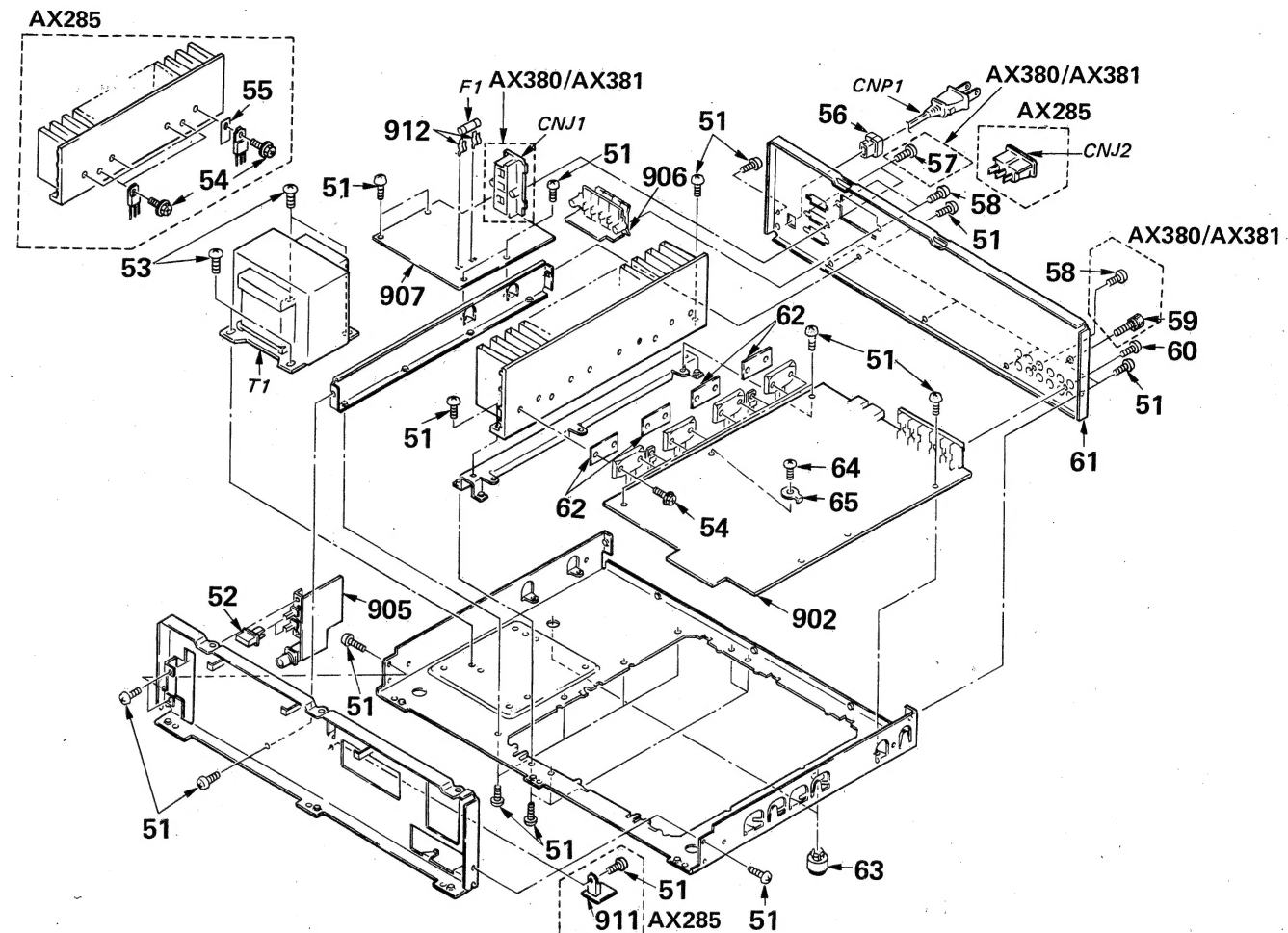
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1.






No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-925-121-01	KNOB (V2)		901	*A-4410-753-A	MOUNTED PCB, CONTROL	
2	X-4904-482-1	(AX380)...PANEL ASSY, FRONT		903	*1-626-405-11	PC BOARD, VOLUME	
	X-4904-483-1	(AX285)...PANEL ASSY, FRONT		904	*1-626-406-11	PC BOARD, MOTOR	
	X-4904-489-1	(AX381)...PANEL ASSY, FRONT					
3	4-861-045-00	(AX285)...LABEL, CAUTION		908	*1-626-410-11	PC BOARD, VOL LED	
4	4-925-039-11	CASE		909	*1-626-411-11	PC BOARD, POWER SW	
5	7-682-548-04	SCREW +BVTT 3X8 (S)		910	*1-626-412-11	PC BOARD, RES	
6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S					
7	3-704-366-01	SCREW (CASE) (M3X8)					

4-2.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)		902	*A-4410-750-A	(Canadian)...MOUNTED PCB, MAIN	
52	4-924-901-01	BUTTON (M)			*A-4410-758-A	(AX380/AX381)...MOUNTED PCB, MAIN	
53	7-682-560-04	SCREW +BVTT 4X6 (S)			*A-4410-759-A	(AX285:US)...MOUNTED PCB, MAIN	
54	7-682-550-04	SCREW (M3X12), TAPPING		905	*1-626-407-11	PC BOARD, SPEAKER SW	
55	4-911-232-01	(AX285)...SHEET, INSULATING		906	*1-626-408-11	PC BOARD, SPEAKER OUT	
56	*3-703-244-00	BUSHING (2104), CORD		907	*1-626-409-11	PC BOARD, POWER	
57	7-685-646-79	(AX380/AX381)...SCREW +BTP 3X8 TYPE2 N-S		911	*1-626-413-11	(AX285)...PC BOARD, IC	
58	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		912	1-533-183-11	HOLDER, FUSE	
59	4-921-321-01	(AX380/AX381)...SCREW, GROUND POINT					
60	4-909-982-01	SCREW, TAPPING		CNJ1	*1-540-012-11	(AX380/AX381)...OUTLET, AC (AC OUTLET)	
61	*4-921-342-01	(AX380)...PANEL, BACK		CNJ2	*1-526-882-00	(AX285)...OUTLET, AC (AC OUTLET)	
	*4-921-342-21	(AX285:US)...PANEL, BACK					
	*4-921-342-31	(AX285:Canadian)...PANEL, BACK		CNP1	*1-559-819-11	CORD, POWER	
	*4-921-342-81	(AX381)...PANEL, BACK		F1	*1-532-748-11	FUSE, GLASS TUBE (6.3A)	
62	4-885-901-31	(AX380/AX381)...SHEET, RADIATION		T1	*1-449-207-11	(AX285)...TRANSFORMER, POWER	
63	X-4864-303-0	FOOT ASSY		T1	*1-449-208-11	(AX380/AX381)...TRANSFORMER, POWER	
64	3-703-685-21	SCREW (+BV 3X8)					
65	4-870-539-00	PLATE, GROUND					

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

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- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are such as circuit parts, resistors

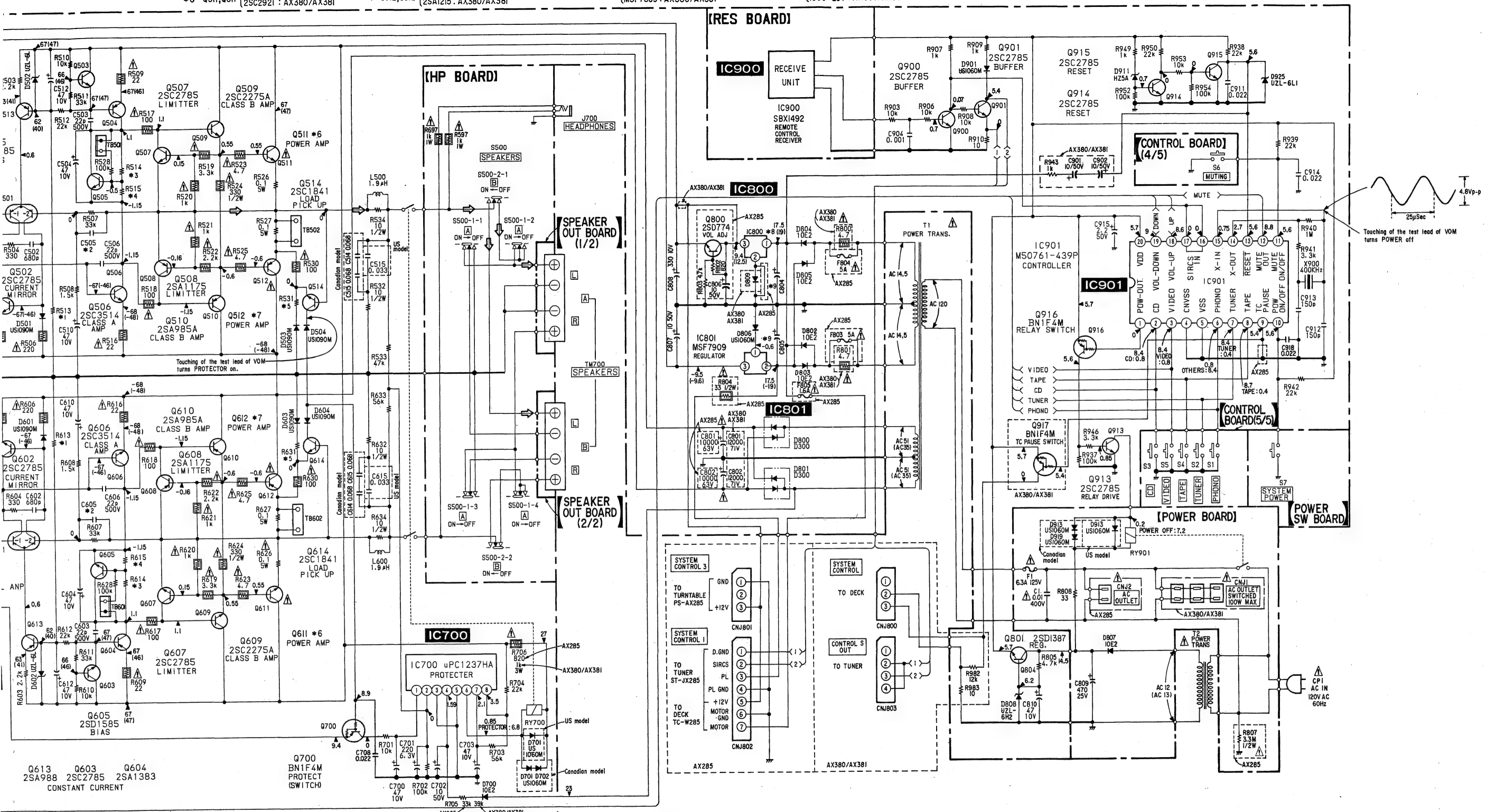
Ref.No.	Part No.
901	*A-4410-753-A
902	*A-4410-750-A
903	*1-626-405-11
904	*1-626-406-11
905	*1-626-407-11
906	*1-626-408-11
907	*1-626-409-11
908	*1-626-410-11
909	*1-626-411-11
910	*1-626-412-11
911	*1-626-413-11
912	1-533-183-11
C1	*1-540-012-11
C101	1-526-882-00
C102	1-559-819-11
C103	1-532-748-11
C105	1-449-207-11
C106	1-449-208-11
C107	1-533-183-11
C108	1-532-748-11
C110	1-533-183-11
C201	1-533-183-11
C202	1-533-183-11
C203	1-533-183-11
C205	1-533-183-11
C206	1-533-183-11
C207	1-533-183-11
C208	1-533-183-11
C210	1-533-183-11
C300	1-533-183-11
C302	1-533-183-11
C303	1-533-183-11
C304	1-533-183-11
C305	1-533-183-11
C306	1-533-183-11
C307	1-533-183-11
C308	1-533-183-11
C309	1-533-183-11
C310	1-533-183-11
C311	1-533-183-11
C312	1-533-183-11
C313	1-533-183-11
C314	1-533-183-11

*6 Q511, Q611 { 2SC3855 : AX285
2SC2921 : AX380/AX381

*7 Q512,Q612 { 2SA1491 : AX285
2SA1215 : AX380/AX381

*8 IC800 { MSF7812 : AX285 (IC BOARD)
MSF7809 : AX380/AX381

* 9 C804, C805 { 2200 25V : AX285
1000 25V : AX380/AX381



R513, R613	$\begin{cases} 15k: AX285 \\ 18k: AX380/AX381 \end{cases}$	*2 C505, C605	$\begin{cases} 10p: AX285 \\ 6.8p: AX380/AX381 \end{cases}$	*3 R514, R614	$\begin{cases} 2.7k: AX285 \\ 3.3k: AX380/AX381 \end{cases}$	*4 R515, R615	$\begin{cases} 1.2k: AX285 \\ 1.5k: AX381 \end{cases}$	*5 R531, R631	$\begin{cases} 15k: AX285 \\ 12k: AX380 \end{cases}$
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SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	*A-4410-753-A	MOUNTED PCB, CONTROL
902	*A-4410-758-A	(AX380/AX381).....MOUNTED PCB, MAIN
	*A-4410-759-A	(AX285:US).....MOUNTED PCB, MAIN
	*A-4410-750-A	(AX285:Canadian)....MOUNTED PCB, MAIN
903	*1-626-405-11	PC BOARD, VOLUME
904	*1-626-406-11	PC BOARD, MOTOR
905	*1-626-407-11	PC BOARD, SPEAKER SW
906	*1-626-408-11	PC BOARD, SPEAKER OUT
907	*1-626-409-11	PC BOARD, POWER
908	*1-626-410-11	PC BOARD, VOL LED
909	*1-626-411-11	PC BOARD, POWER SW
910	*1-626-412-11	PC BOARD, RES
911	*1-626-413-11	(AX285)...PC BOARD, IC
912	1-533-183-11	HOLDER, FUSE
C1	Δ 1-161-744-00	CERAMIC 0.01MF 400V
C101	1-162-282-31	CERAMIC 100PF 50V
C102	1-123-875-11	ELECT 10MF 20% 50V
C103	1-124-446-11	ELECT 47MF 20% 10V
C105	1-130-480-00	MYLAR 0.0056MF 5% 50V
C106	1-130-473-00	MYLAR 0.0015MF 5% 50V
C107	1-124-902-00	ELECT 0.47MF 20% 50V
C108	1-124-908-11	ELECT 22MF 20% 25V
C110	1-162-282-31	CERAMIC 100PF 10% 50V
C201	1-162-282-31	CERAMIC 100PF 10% 50V
C202	1-123-875-11	ELECT 10MF 20% 50V
C203	1-124-446-11	ELECT 47MF 20% 10V
C205	1-130-480-00	MYLAR 0.0056MF 5% 50V
C206	1-130-473-00	MYLAR 0.0015MF 5% 50V
C207	1-124-902-00	ELECT 0.47MF 20% 50V
C208	1-124-908-11	ELECT 22MF 20% 25V
C210	1-162-282-31	CERAMIC 100PF 10% 50V
C300	1-124-259-00	ELECT 4.7MF 20% 50V
C302	1-124-598-11	ELECT 22MF 20% 25V
C303	1-162-211-31	CERAMIC 33PF 5% 50V
C304	1-124-259-00	ELECT 4.7MF 20% 50V
C305	1-124-254-00	ELECT 0.68MF 20% 50V
C306	1-136-163-00	FILM 0.068MF 5% 50V
C307	1-124-464-11	ELECT 0.22MF 20% 50V
C308	1-136-155-00	FILM 0.015MF 5% 50V
C309	1-136-163-00	FILM 0.068MF 5% 50V
C310	1-161-329-00	CERAMIC 0.0068MF 20% 16V
C311	1-136-157-00	FILM 0.022MF 5% 50V
C312	1-161-374-11	CERAMIC 0.0015MF 20% 16V
C313	1-161-377-00	CERAMIC 0.0047MF 10% 16V
C314	1-162-292-31	CERAMIC 680PF 10% 50V

Ref.No.	Part No.	Description
C317	1-124-902-00	ELECT 0.47MF 20% 50V
C400	1-124-259-00	ELECT 4.7MF 20% 50V
C402	1-124-598-11	ELECT 22MF 20% 25V
C403	1-162-211-31	CERAMIC 33PF 5% 50V
C404	1-124-259-00	ELECT 4.7MF 20% 50V
C405	1-124-254-00	ELECT 0.68MF 20% 50V
C406	1-136-163-00	FILM 0.068MF 5% 50V
C407	1-124-464-11	ELECT 0.22MF 20% 50V
C408	1-136-155-00	FILM 0.015MF 5% 50V
C409	1-136-163-00	FILM 0.068MF 5% 50V
C410	1-161-329-00	CERAMIC 0.0068MF 20% 16V
C411	1-136-157-00	FILM 0.022MF 5% 50V
C412	1-161-374-11	CERAMIC 0.0015MF 20% 16V
C413	1-161-377-00	CERAMIC 0.0047MF 10% 16V
C414	1-162-292-31	CERAMIC 680PF 10% 50V
C417	1-124-902-00	ELECT 0.47MF 20% 50V
C500	1-124-927-11	ELECT 4.7MF 20% 50V
C502	1-162-292-31	CERAMIC 680PF 10% 50V
C503	1-161-959-00	CERAMIC 22PF 10% 500V
C504	1-124-446-11	ELECT 47MF 20% 10V
C505	1-162-197-31	(AX380/AX381)...CERAMIC 6.8PF 10% 50V
C505	1-162-199-11	(AX285).....CERAMIC 10PF 5% 50V
C506	1-161-959-00	CERAMIC 22PF 10% 500V
C510	1-124-446-11	ELECT 47MF 20% 10V
C512	1-124-446-11	ELECT 47MF 20% 10V
C514	1-136-163-00	(Canadian)...FILM 0.068MF 5% 50V
C515	1-136-159-00	(US).....FILM 0.033MF 5% 50V
C515	1-136-163-00	(Canadian)...FILM 0.068MF 5% 50V
C600	1-124-927-11	ELECT 4.7MF 20% 50V
C602	1-162-292-31	CERAMIC 680PF 10% 50V
C603	1-161-959-00	CERAMIC 22PF 10% 500V
C604	1-124-446-11	ELECT 47MF 20% 10V
C605	1-162-197-31	(AX380/AX381)...CERAMIC 6.8PF 10% 50V
C605	1-162-199-11	(AX285).....CERAMIC 10PF 5% 50V
C606	1-161-959-00	CERAMIC 22PF 10% 500V
C610	1-124-446-11	ELECT 47MF 20% 10V
C612	1-124-446-11	ELECT 47MF 20% 10V
C614	1-136-163-00	(Canadian)...FILM 0.068MF 5% 50V
C615	1-136-159-00	(US).....FILM 0.033MF 5% 50V
C615	1-136-163-00	(Canadian)...FILM 0.068MF 5% 50V
C700	1-124-446-11	ELECT 47MF 20% 10V
C701	1-124-444-00	ELECT 220MF 20% 6.3V
C702	1-123-875-11	ELECT 10MF 20% 50V
C703	1-124-446-11	ELECT 47MF 20% 10V
C708	1-161-494-00	CERAMIC 0.022MF 25V

Ref.No.	Part No.	Description
C801	Δ 1-125-416-11	(AX285).....ELECT 10000MF 20% 63V
C801	Δ 1-125-522-11	(AX380/AX381)...ELECT 12000MF 20% 71V
C802	Δ 1-125-416-11	(AX285).....ELECT 10000MF 20% 63V
C802	Δ 1-125-522-11	(AX380/AX381)...ELECT 12000MF 20% 71V
C804	1-124-557-11	(AX380/AX381)...ELECT 1000MF 20% 25V
C804	1-124-563-11	(AX285).....ELECT 2200MF 20% 25V
C805	1-124-557-11	(AX380/AX381)...ELECT 1000MF 20% 25V
C805	1-124-563-11	(AX285).....ELECT 2200MF 20% 25V
C806	1-123-875-11	(AX285)...ELECT 10MF 20% 50V
C807	1-123-875-11	ELECT 10MF 20% 50V
C808	1-124-604-00	ELECT 330MF 20% 10V
C809	1-124-480-11	ELECT 470MF 20% 25V
C810	1-124-446-11	ELECT 47MF 20% 10V
C811	1-124-472-11	ELECT 470MF 20% 10V
C901	1-123-875-11	(AX380/AX381)...ELECT 10MF 20% 50V
C902	1-123-875-11	(AX380/AX381)...ELECT 10MF 20% 50V
C904	1-130-471-00	MYLAR 0.001MF 5% 50V
C905	1-124-893-11	ELECT 2200MF 20% 10V
C906	1-161-494-00	CERAMIC 0.022MF 25V
C907	1-124-908-11	ELECT 22MF 20% 25V
C908	1-124-499-11	ELECT 1MF 20% 50V
C909	1-124-925-11	ELECT 2.2MF 20% 50V
C910	1-124-925-11	ELECT 2.2MF 20% 50V
C911	1-161-494-00	CERAMIC 0.022MF 25V
C912	1-162-284-31	CERAMIC 150PF 10% 50V
C913	1-162-284-31	CERAMIC 150PF 10% 50V
C914	1-161-494-00	CERAMIC 0.022MF 25V
C915	1-124-925-11	ELECT 2.2MF 20% 50V
C916	1-124-925-11	ELECT 2.2MF 20% 50V
C917	1-124-925-11	ELECT 2.2MF 20% 50V
C918	1-161-494-00	CERAMIC 0.022MF 25V
C919	1-161-379-00	CERAMIC 0.01MF 20% 16V
C920	1-161-379-00	CERAMIC 0.01MF 20% 16V
C921	1-161-379-00	CERAMIC 0.01MF 20% 16V
CN806	*1-564-337-51	PIN, CONNECTOR 3P
CN906	*1-564-505-11	PLUG, CONNECTOR 2P
CN907	*1-564-511-11	PLUG, CONNECTOR 8P
CNJ1	Δ 1-540-012-11	(AX380/AX381)...OUTLET, AC (AC OUTLET)
CNJ2	Δ 1-526-882-00	(AX285).....OUTLET, AC (AC OUTLET)
CNJ100	*1-566-858-11	(AX285)...CONNECTOR 11P (SYSTEM CONTROL 2)
CNJ800	*1-566-210-11	(AX380/AX381)...PIN, CONNECTOR 3P (SYSTEM CONTROL)
CNJ801	1-566-210-11	(AX285)...PIN, CONNECTOR 3P (SYSTEM CONTROL 3)
CNJ802	1-566-857-11	(AX285)...SOCKET, CONNECTOR 7P (SYSTEM CONTROL 1)
CNJ803	1-566-213-11	(AX380/AX381)...PIN, CONNECTOR 4P (CONTROL S OUT)
CNJ901	*1-565-354-11	SOCKET, CONNECTOR 15P
CNJ903	*1-561-650-00	SOCKET, CONNECTOR 5P
CNJ905	1-565-296-11	SOCKET, CONNECTOR 4P
CNP1	Δ 1-559-819-11	CORD, POWER
CNP901	*1-565-353-11	PIN, CONNECTOR 15P
CNP902	1-506-906-11	PIN, CONNECTOR 5P
CNP903	1-506-906-11	PIN, CONNECTOR 5P
D501	8-719-000-26	DIODE US1090M
D502	8-719-000-51	DIODE UZL-6L2
D503	8-719-000-26	DIODE US1090M

Ref.No.	Part No.	Description
D504	8-719-000-26	DIODE US1090M
D601	8-719-000-26	DIODE US1090M
D602	8-719-000-51	DIODE UZL-6L2
D603	8-719-000-26	DIODE US1090M
D604	8-719-000-26	DIODE US1090M
D700	8-719-200-02	DIODE 10E2
D701	8-719-000-26	DIODE US1060M
D702	8-719-000-26	(Canadian)...DIODE US1060M
D800	8-719-200-80	DIODE D300
D801	8-719-200-80	DIODE D300
D802	8-719-200-02	DIODE 10E2
D803	8-719-200-02	DIODE 10E2
D804	8-719-200-02	DIODE 10E2
D805	8-719-200-02	DIODE 10E2
D806	8-719-000-26	DIODE US1060M
D807	8-719-200-02	DIODE 10E2
D808	8-719-000-59	DIODE UZL-6H2
D809	8-719-000-26	(AX380/AX381)...DIODE US1060M
D901	8-719-000-26	DIODE US1060M
D902	8-719-000-26	DIODE US1060M
D903	8-719-000-26	DIODE US1060M
D904	8-719-000-26	DIODE US1060M
D905	8-719-000-90	DIODE UZL-7M3
D906	8-719-301-38	DIODE SEL2210S-C
D907	8-719-301-38	DIODE SEL2210S-C
D908	8-719-301-38	DIODE SEL2210S-C
D909	8-719-301-38	DIODE SEL2210S-C
D910	8-719-301-38	DIODE SEL2210S-C
D911	8-719-951-11	DIODE HZ5ALL
D913	8-719-000-26	DIODE US1060M
D915	8-719-301-52	DIODE SEL2810A-C
D916	8-719-000-26	DIODE US1060M
D917	8-719-000-26	DIODE US1060M
D918	8-719-303-00	DIODE SEL2510C
D919	8-719-000-26	(Canadian)...DIODE US1060M
D920	8-719-300-82	DIODE SEL2213C
D921	8-719-300-82	DIODE SEL2213C
D922	8-719-300-82	DIODE SEL2213C
D923	8-719-300-82	DIODE SEL2213C
D924	8-719-300-82	DIODE SEL2213C
D925	8-719-000-48	DIODE UZL-6L1
F1	Δ 1-532-748-11	FUSE, GLASS TUBE (6.3A)
F803	Δ 1-532-783-21	(AX285)...FUSE, MICRO (SECONDARY) 5A
F804	Δ 1-532-783-21	(AX285)...FUSE, MICRO (SECONDARY) 5A
F805	Δ 1-532-778-21	(AX285)...FUSE, MICRO (SECONDARY) 1.6A
IC100	8-759-600-02	IC M5218L
IC101	8-759-601-43	(AX380/AX381)...IC M4066BP
IC102	8-759-802-52	IC LC7818
IC300	8-759-106-61	IC UPC4570HA
IC700	8-759-111-68	IC UPC1237HA
IC800	8-759-604-31	(AX380/AX381)...IC M5F7809
IC800	8-759-604-33	(AX285).....IC M5F7812
IC801	8-759-604-49	IC M5F7909
IC900	8-749-901-49	IC SBX1492-51
IC901	8-759-604-75	IC M50761-439P
J100	1-565-320-11	JACK, PIN 6P (PHONO IN/CD IN/VIDEO AUDIO IN)
J101	1-565-320-11	(AX380/AX381)...JACK, PIN 6P (TUNER IN/TAPE)
J700	1-507-863-61	JACK, LARGE TYPE (HEADPHONES)

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
L500	*1-420-872-00	COIL, AIR CORE (1.9UH)
L600	*1-420-872-00	COIL, AIR CORE (1.9UH)
Q100	8-729-900-63	(AX380/AX381)...TRANSISTOR DTA124ES
Q101	8-729-900-89	(AX380/AX381)...TRANSISTOR DTC144ES
Q300	8-729-178-55	TRANSISTOR 2SC2785-E
Q301	8-729-178-55	TRANSISTOR 2SC2785-E
Q302	8-729-178-55	TRANSISTOR 2SC2785-E
Q303	8-729-178-55	TRANSISTOR 2SC2785-E
Q304	8-729-178-55	TRANSISTOR 2SC2785-E
Q305	8-729-107-99	TRANSISTOR 2SC3622A-K
Q400	8-729-178-55	TRANSISTOR 2SC2785-E
Q401	8-729-178-55	TRANSISTOR 2SC2785-E
Q402	8-729-178-55	TRANSISTOR 2SC2785-E
Q403	8-729-178-55	TRANSISTOR 2SC2785-E
Q404	8-729-178-55	TRANSISTOR 2SC2785-E
Q405	8-729-107-99	TRANSISTOR 2SC3622A-K
Q501	8-729-697-92	TRANSISTOR 2SA979
Q502	8-729-178-55	TRANSISTOR 2SC2785-E
Q503	8-729-178-55	TRANSISTOR 2SC2785-E
Q504	8-729-104-91	TRANSISTOR 2SA1383
Q505	8-729-107-25	TRANSISTOR 2SD1585-L
Q506	8-729-104-18	TRANSISTOR 2SC3514
Q507	8-729-178-55	TRANSISTOR 2SC2785-E
Q508	8-729-117-54	TRANSISTOR 2SA1175
Q509	8-729-107-53	TRANSISTOR 2SC2275A
Q510	8-729-190-53	TRANSISTOR 2SA985A
Q511	△ 8-729-300-36	(AX380/AX381)...TRANSISTOR 2SC2921
Q511	△ 8-729-304-32	(AX285).....TRANSISTOR 2SC3855
Q512	△ 8-729-300-22	(AX380/AX381)...TRANSISTOR 2SA1215
Q512	△ 8-729-304-29	(AX285).....TRANSISTOR 2SA1491
Q513	8-729-108-14	TRANSISTOR 2SA988-F
Q514	8-729-108-06	TRANSISTOR 2SC1841
Q601	8-729-697-92	TRANSISTOR 2SA979
Q602	8-729-178-55	TRANSISTOR 2SC2785-E
Q603	8-729-178-55	TRANSISTOR 2SC2785-E
Q604	8-729-104-91	TRANSISTOR 2SA1383
Q605	8-729-107-25	TRANSISTOR 2SD1585-L
Q606	8-729-104-18	TRANSISTOR 2SC3514
Q607	8-729-178-55	TRANSISTOR 2SC2785-E
Q608	8-729-117-54	TRANSISTOR 2SA1175
Q609	8-729-107-53	TRANSISTOR 2SC2275A
Q610	8-729-190-53	TRANSISTOR 2SA985A
Q611	△ 8-729-300-36	(AX380/AX381)...TRANSISTOR 2SC2921
Q611	△ 8-729-304-32	(AX285).....TRANSISTOR 2SC3855
Q612	△ 8-729-300-22	(AX380/AX381)...TRANSISTOR 2SA1215
Q612	△ 8-729-304-29	(AX285).....TRANSISTOR 2SA1491
Q613	8-729-108-14	TRANSISTOR 2SA988-F
Q614	8-729-108-06	TRANSISTOR 2SC1841
Q700	8-729-900-63	TRANSISTOR DTA124ES
Q800	8-729-177-43	(AX285)...TRANSISTOR 2SD774
Q801	8-729-801-93	TRANSISTOR 2SD1387
Q900	8-729-178-55	TRANSISTOR 2SC2785-E
Q901	8-729-178-55	TRANSISTOR 2SC2785-E
Q902	8-729-900-80	TRANSISTOR DTC114ES
Q903	8-729-178-55	TRANSISTOR 2SC2785-E
Q904	8-729-117-54	TRANSISTOR 2SA1175
Q905	8-729-900-61	TRANSISTOR DTA114ES
Q908	8-729-802-34	TRANSISTOR 2SD1388

Ref.No.	Part No.	Description
Q909	8-729-802-22	TRANSISTOR 2SB1014
Q910	8-729-900-63	TRANSISTOR DTA124ES
Q913	8-729-178-55	TRANSISTOR 2SC2785-E
Q914	8-729-178-55	TRANSISTOR 2SC2785-E
Q915	8-729-178-55	TRANSISTOR 2SC2785-E
Q916	8-729-900-63	TRANSISTOR DTA124ES
Q917	8-729-900-63	(AX380/AX381)...TRANSISTOR DTA124ES
Q918	8-729-900-63	TRANSISTOR DTA124ES
Q919	8-729-900-36	TRANSISTOR DTC124ES
R100	1-249-441-11	CARBON 100K 5% 1/4W
R101	1-249-411-11	CARBON 330 5% 1/4W
R102	1-249-441-11	CARBON 100K 5% 1/4W
R103	1-249-416-11	CARBON 820 5% 1/4W
R104	1-215-487-00	CARBON 560K 5% 1/4W
R105	1-249-437-11	CARBON 47K 5% 1/4W
R106	1-249-409-11	CARBON 220 5% 1/4W
R107	1-249-441-11	CARBON 100K 5% 1/4W
R108	1-249-418-11	CARBON 1.2K 5% 1/4W
R110	1-249-418-11	CARBON 1.2K 5% 1/4W
R111	1-249-433-11	(AX380/AX381)...CARBON 22K 5% 1/4W
R112	1-249-418-11	CARBON 1.2K 5% 1/4W
R114	1-249-413-11	CARBON 470 5% 1/4W
R116	1-249-418-11	CARBON 1.2K 5% 1/4W
R200	1-249-441-11	CARBON 100K 5% 1/4W
R201	1-249-411-11	CARBON 330 5% 1/4W
R202	1-249-441-11	CARBON 100K 5% 1/4W
R203	1-249-416-11	CARBON 820 5% 1/4W
R204	1-215-487-00	CARBON 560K 5% 1/4W
R205	1-249-437-11	CARBON 47K 5% 1/4W
R206	1-249-409-11	CARBON 220 5% 1/4W
R207	1-249-441-11	CARBON 100K 5% 1/4W
R208	1-249-418-11	CARBON 1.2K 5% 1/4W
R210	1-249-418-11	CARBON 1.2K 5% 1/4W
R212	1-249-418-11	CARBON 1.2K 5% 1/4W
R214	1-249-413-11	CARBON 470 5% 1/4W
R216	1-249-418-11	CARBON 1.2K 5% 1/4W
R300	1-249-417-11	CARBON 1K 5% 1/4W
R301	1-249-441-11	CARBON 100K 5% 1/4W
R302	1-249-425-11	CARBON 4.7K 5% 1/4W
R303	1-249-437-11	CARBON 47K 5% 1/4W
R304	1-249-425-11	CARBON 4.7K 5% 1/4W
R305	1-249-419-11	CARBON 1.5K 5% 1/4W
R306	1-249-437-11	CARBON 47K 5% 1/4W
R307	1-249-412-11	CARBON 390 5% 1/4W
R308	1-249-427-11	CARBON 6.8K 5% 1/4W
R309	1-249-419-11	CARBON 1.5K 5% 1/4W
R310	1-249-437-11	CARBON 47K 5% 1/4W
R311	1-249-412-11	CARBON 390 5% 1/4W
R312	1-249-427-11	CARBON 6.8K 5% 1/4W
R313	1-249-419-11	CARBON 1.5K 5% 1/4W
R314	1-249-437-11	CARBON 47K 5% 1/4W
R315	1-249-412-11	CARBON 390 5% 1/4W
R316	1-249-427-11	CARBON 6.8K 5% 1/4W
R317	1-249-419-11	CARBON 1.5K 5% 1/4W
R318	1-249-437-11	CARBON 47K 5% 1/4W
R319	1-249-412-11	CARBON 390 5% 1/4W
R320	1-249-427-11	CARBON 6.8K 5% 1/4W

Note:
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Ref.No.	Part No.	Description				
R321	1-249-419-11	CARBON	1.5K	5%	1/4W	
R322	1-249-437-11	CARBON	47K	5%	1/4W	
R323	1-249-412-11	CARBON	390	5%	1/4W	
R324	1-249-427-11	CARBON	6.8K	5%	1/4W	
R327	1-249-417-11	CARBON	1K	5%	1/4W	
R328	1-249-419-11	CARBON	1.5K	5%	1/4W	
R329	1-249-417-11	CARBON	1K	5%	1/4W	
R400	1-249-417-11	CARBON	1K	5%	1/4W	
R401	1-249-441-11	CARBON	100K	5%	1/4W	
R402	1-249-425-11	CARBON	4.7K	5%	1/4W	
R403	1-249-437-11	CARBON	47K	5%	1/4W	
R404	1-249-425-11	CARBON	4.7K	5%	1/4W	
R405	1-249-419-11	CARBON	1.5K	5%	1/4W	
R406	1-249-437-11	CARBON	47K	5%	1/4W	
R407	1-249-412-11	CARBON	390	5%	1/4W	
R408	1-249-427-11	CARBON	6.8K	5%	1/4W	
R409	1-249-419-11	CARBON	1.5K	5%	1/4W	
R410	1-249-437-11	CARBON	47K	5%	1/4W	
R411	1-249-412-11	CARBON	390	5%	1/4W	
R412	1-249-427-11	CARBON	6.8K	5%	1/4W	
R413	1-249-419-11	CARBON	1.5K	5%	1/4W	
R414	1-249-437-11	CARBON	47K	5%	1/4W	
R415	1-249-412-11	CARBON	390	5%	1/4W	
R416	1-249-427-11	CARBON	6.8K	5%	1/4W	
R417	1-249-419-11	CARBON	1.5K	5%	1/4W	
R418	1-249-437-11	CARBON	47K	5%	1/4W	
R419	1-249-412-11	CARBON	390	5%	1/4W	
R420	1-249-427-11	CARBON	6.8K	5%	1/4W	
R421	1-249-419-11	CARBON	1.5K	5%	1/4W	
R422	1-249-437-11	CARBON	47K	5%	1/4W	
R423	1-249-412-11	CARBON	390	5%	1/4W	
R424	1-249-427-11	CARBON	6.8K	5%	1/4W	
R427	1-249-417-11	CARBON	1K	5%	1/4W	
R428	1-249-419-11	CARBON	1.5K	5%	1/4W	
R429	1-249-417-11	CARBON	1K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-435-11	CARBON	33K	5%	1/4W	
R503	1-249-421-11	CARBON	2.2K	5%	1/4W	
R504	1-249-411-11	CARBON	330	5%	1/4W	
R505	△.1-247-704-11	CARBON	220	5%	1/4W	F
R506	△.1-247-704-11	CARBON	220	5%	1/4W	F
R507	1-249-435-11	CARBON	33K	5%	1/4W	
R508	1-249-419-11	CARBON	1.5K	5%	1/4W	
R509	△.1-247-692-11	CARBON	22	5%	1/4W	F
R510	1-249-429-11	CARBON	10K	5%	1/4W	
R511	1-249-435-11	CARBON	33K	5%	1/4W	
R512	1-249-433-11	CARBON	22K	5%	1/4W	
R513	1-249-431-11	(AX285).....CARBON	15K	5%	1/4W	
R513	1-249-432-11	(AX380/AX381)...CARBON	18K	5%	1/4W	
R514	1-249-422-11	(AX285).....CARBON	2.7K	5%	1/4W	
R514	1-249-423-11	(AX380/AX381)...CARBON	3.3K	5%	1/4W	
R515	1-249-418-11	(AX285).....CARBON	1.2K	5%	1/4W	
R515	1-249-419-11	(AX380/AX381)...CARBON	1.5K	5%	1/4W	
R516	△.1-247-692-11	CARBON	22	5%	1/4W	F
R517	△.1-247-700-11	CARBON	100	5%	1/4W	F
R518	△.1-247-700-11	CARBON	100	5%	1/4W	F

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Ref.No.	Part No.	Description				
R519	△.1-247-719-11	CARBON	3.3K	5%	1/4W	F
R520	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R521	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R522	△.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R523	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R524	△.1-247-745-11	CARBON	330	5%	1/2W	F
R525	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R526	1-214-789-00	RES, METAL PLATE 0.1			5W	
R527	1-214-789-00	RES, METAL PLATE 0.1			5W	
R528	1-249-441-11	CARBON	100K	5%	1/4W	
R530	△.1-247-700-11	CARBON	100	5%	1/4W	F
R531	1-249-430-11	(AX380/AX381)...CARBON	12K	5%	1/4W	
R531	1-249-431-11	(AX285).....CARBON	15K	5%	1/4W	
R532	1-247-727-11	CARBON	10	5%	1/2W	
R533	1-249-437-11	CARBON	47K	5%	1/4W	
R534	1-247-727-11	CARBON	10	5%	1/2W	
R597	△.1-215-869-11	METAL OXIDE	1K	5%	1W	F
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R602	1-249-435-11	CARBON	33K	5%	1/4W	
R603	1-249-421-11	CARBON	2.2K	5%	1/4W	
R604	1-249-411-11	CARBON	330	5%	1/4W	
R605	△.1-247-704-11	CARBON	220	5%	1/4W	F
R606	△.1-247-704-11	CARBON	220	5%	1/4W	F
R607	1-249-435-11	CARBON	33K	5%	1/4W	
R608	1-249-419-11	CARBON	1.5K	5%	1/4W	
R609	△.1-247-692-11	CARBON	22	5%	1/4W	F
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-435-11	CARBON	33K	5%	1/4W	
R612	1-249-433-11	CARBON	22K	5%	1/4W	
R613	1-249-431-11	(AX285).....CARBON	15K	5%	1/4W	
R613	1-249-432-11	(AX380/AX381)...CARBON	18K	5%	1/4W	
R614	1-249-422-11	(AX285).....CARBON	2.7K	5%	1/4W	
R614	1-249-423-11	(AX380/AX381)...CARBON	3.3K	5%	1/4W	
R615	1-249-418-11	(AX285).....CARBON	1.2K	5%	1/4W	
R615	1-249-419-11	(AX380/AX381)...CARBON	1.5K	5%	1/4W	
R616	△.1-247-692-11	CARBON	22	5%	1/4W	F
R617	△.1-247-700-11	CARBON	100	5%	1/4W	F
R618	△.1-247-700-11	CARBON	100	5%	1/4W	F
R619	△.1-247-719-11	CARBON	3.3K	5%	1/4W	F
R620	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R621	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R622	△.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R623	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R624	△.1-247-745-11	CARBON	330	5%	1/2W	F
R625	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R626	1-214-789-00	RES, METAL PLATE 0.1			5W	
R627	1-214-789-00	RES, METAL PLATE 0.1			5W	
R628	1-249-441-11	CARBON	100K	5%	1/4W	
R630	△.1-247-700-11	CARBON	100	5%	1/4W	F
R631	1-249-430-11	(AX380/AX381)...CARBON	12K	5%	1/4W	
R631	1-249-431-11	(AX285).....CARBON	15K	5%	1/4W	
R632	1-247-727-11	CARBON	10	5%	1/2W	
R633	1-249-438-11	CARBON	56K	5%	1/4W	
R634	1-247-727-11	CARBON	10	5%	1/2W	
R697	△.1-215-869-11	METAL OXIDE	1K	5%	1W	F
R701	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-441-11	CARBON	100K	5%	1/4W	

Ref.No.	Part No.	Description
R703	1-249-439-11	CARBON 68K 5% 1/4W
R704	1-249-433-11	CARBON 22K 5% 1/4W
R705	1-249-435-11	(AX285).....CARBON 33K 5% 1/4W
R705	1-249-436-11	(AX380/AX381)...CARBON 39K 5% 1/4W
R706	△.1-206-723-00	(AX285).....METAL OXIDE 820 5% 3W F
R706	△.1-206-725-00	(AX380/AX381)..METAL OXIDE 1K 5% 3W F
R800	△.1-249-455-11	(AX380/AX381)...CARBON 4.7 5% 1/4W F
R801	△.1-249-455-11	(AX380/AX381)...CARBON 4.7 5% 1/4W F
R802	1-249-416-11	(AX285).....CARBON 820 5% 1/4W
R803	1-249-425-11	(AX285).....CARBON 4.7K 5% 1/4W
R804	△.1-247-733-11	(AX285).....CARBON 33 5% 1/2W F
R805	1-249-425-11	CARBON 4.7K 5% 1/4W
R806	1-249-397-11	CARBON 22 5% 1/4W
R807	△.1-202-725-00	(AX285).....SOLID 3.3M 10% 1/2W
R808	1-249-399-11	CARBON 33 5% 1/4W
R903	1-249-429-11	CARBON 10K 5% 1/4W
R906	1-249-429-11	CARBON 10K 5% 1/4W
R907	1-249-417-11	CARBON 1K 5% 1/4W
R908	1-249-429-11	CARBON 10K 5% 1/4W
R909	1-249-417-11	CARBON 1K 5% 1/4W
R910	1-249-393-11	CARBON 10 5% 1/4W
R911	1-215-491-00	CARBON 820K 5% 1/4W
R912	1-249-425-11	CARBON 4.7K 5% 1/4W
R913	1-249-433-11	CARBON 22K 5% 1/4W
R914	1-249-433-11	CARBON 22K 5% 1/4W
R915	1-249-429-11	CARBON 10K 5% 1/4W
R916	1-249-429-11	CARBON 10K 5% 1/4W
R917	1-249-433-11	CARBON 22K 5% 1/4W
R918	1-249-441-11	CARBON 100K 5% 1/4W
R919	1-249-433-11	CARBON 22K 5% 1/4W
R925	1-249-413-11	CARBON 470 5% 1/4W
R926	1-249-413-11	CARBON 470 5% 1/4W
R927	1-249-413-11	CARBON 470 5% 1/4W
R928	1-249-413-11	CARBON 470 5% 1/4W
R929	1-249-413-11	CARBON 470 5% 1/4W
R930	1-249-417-11	CARBON 1K 5% 1/4W
R931	1-249-419-11	CARBON 1.5K 5% 1/4W
R932	1-249-394-11	CARBON 12 5% 1/4W
R933	1-249-394-11	CARBON 12 5% 1/4W
R937	1-249-441-11	CARBON 100K 5% 1/4W
R938	1-249-433-11	CARBON 22K 5% 1/4W
R939	1-249-433-11	CARBON 22K 5% 1/4W
R940	1-247-903-00	CARBON 1M 5% 1/4W
R941	1-249-423-11	CARBON 3.3K 5% 1/4W
R942	1-249-433-11	CARBON 22K 5% 1/4W
R943	1-249-417-11	(AX380/AX381)...CARBON 1K 5% 1/4W
R944	1-249-417-11	CARBON 1K 5% 1/4W
R946	1-249-423-11	CARBON 3.3K 5% 1/4W
R948	1-249-417-11	CARBON 1K 5% 1/4W
R949	1-249-417-11	CARBON 1K 5% 1/4W
R950	1-249-433-11	CARBON 22K 5% 1/4W
R951	1-249-441-11	CARBON 100K 5% 1/4W
R952	1-249-441-11	CARBON 100K 5% 1/4W
R953	1-249-429-11	CARBON 10K 5% 1/4W
R954	1-249-441-11	CARBON 100K 5% 1/4W
R980	1-249-413-11	CARBON 470 5% 1/4W
R981	1-249-441-11	CARBON 100K 5% 1/4W

Ref.No.	Part No.	Description
R982	1-249-430-11	(AX380/AX381)...CARBON 12K 5% 1/4W
R983	1-249-393-11	(AX380/AX381)...CARBON 10 5% 1/4W
R984	1-249-413-11	CARBON 470 5% 1/4W
RV300	1-238-079-11	RES, VAR, CARBON 100K/100K(VOLUME) (INCLUDING M900)
RV301	1-238-153-11	RES, VAR, SLIDE 150K/150K (BALANCE)
RV302	1-238-078-11	RES, VAR, SLIDE 250K/250K (100Hz)
RV303	1-238-078-11	RES, VAR, SLIDE 250K/250K (400Hz)
RV304	1-238-078-11	RES, VAR, SLIDE 250K/250K (1kHz)
RV305	1-238-078-11	RES, VAR, SLIDE 250K/250K (4kHz)
RV306	1-238-078-11	RES, VAR, SLIDE 250K/250K (12kHz)
RY700	1-515-356-00	RELAY
RY901	1-515-701-11	RELAY
S1	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S2	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S3	1-554-303-21	SWITCH, KEY BOARD (CD)
S4	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S5	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S6	1-554-303-21	SWITCH, KEY BOARD (MUTING)
S7	1-554-303-21	SWITCH, KEY BOARD (SYSTEM POWER)
S500	1-570-270-11	SWITCH, PUSH (2 KEY)(SPEAKERS A/B)
T1	△.1-449-208-11	(AX380/AX381)...TRANSFORMER, POWER
T1	△.1-449-207-11	(AX285).....TRANSFORMER, POWER
T2	△.1-448 517-21	TRANSFORMER, POWER
TB501	*1-560-060-00	PIN, CONNECTOR 2P
TB502	*1-535-115-00	TERMINAL 2P
TB601	*1-560-060-00	PIN, CONNECTOR 2P
TB602	*1-535-115-00	TERMINAL 2P
TB701	*1-535-115-00	TERMINAL
TB702	*1-535-117-00	TERMINAL 4P
TB703	*1-535-121-00	TERMINAL 8P
TB704	*1-535-117-00	TERMINAL 4P
TB705	*1-535-119-00	TERMINAL 6P
TB801	*1-535-116-00	TERMINAL
TB802	*1-535-116-00	TERMINAL
TB803	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
TB804	1-535-139-00	(AX285)...BASE POST 22MM (10MM PITCH)2P
TB805	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
TM700	1-536-706-00	TERMINAL BOARD (SP)(SPEAKERS)
X900	1-577-077-11	OSCILLATOR, CERAMIC (400kHz)

ACCESSORY & PACKING MATERIAL

1-463-982-11	(AX380)...REMOTE COMMANDER (RM-S380)
1-463-986-11	(AX381)...REMOTE COMMANDER (RM-U80)
2-128-529-01	(AX380)...CASE, BATTERY (FOR REMOTE COMMANDER)
2-394-123-01	(AX381)...COVER, BATTERY (FOR REMOTE COMMANDER)
3-703-450-01	(AX380/AX381)...INSTRUCTION
3-704-346-01	(AX285)...SHEET (STANDARD), PROTECTION
3-769-967-21	(AX380/AX381)...MANUAL, INSTRUCTION
*4-921-346-01	(AX380/AX381)...CUSHION
*4-911-290-01	(AX285).....CUSHION
*4-921-347-01	(AX380)...INDIVIDUAL CARTON
*4-921-372-01	(AX381)...INDIVIDUAL CARTON

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TA-AX285/AX380/AX381

SONY SERVICE MANUAL

US Model

TA-AX285

TA-AX380


TA-AX381



Canadian Model

TA-AX285

CORRECTION-1

Please correct your service manual.

 : Corrected portions

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
18 19	902	* A-4410-759-A	(AX285 : US)..... MOUNTED PCB, MAIN	* A-4410-749-A 	(AX285 : US)..... MOUNTED PCB, MAIN
23	T2	1-448-517-21	TRANSFORMER, POWER	1-449-296-11 	TRANSFORMER, POWER